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ATTENUATION IN THE WESTERN GREAT BASIN

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6. AUTHOR(S)
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13. ABSTRACT (Maximum 200 words)
Progress during the reporting period: (1) Installed relay-link for Mina digital station on Mt Ferguson (2) Prepared digital station for installation at Bodie (3) Designed fourth digital station for instalation south of NTS for S (c) S study

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UNIVERSITY OF NEVADA – RENO – NEVADA – 89557

Mackay School of Mines
Seismological Laboratory

Telephone (702) 784-4975

1 February 1984

Quarterly Research and Development Status Report

No. 5

1 October 1983 - 31 December 1983

ARPA Order:	4397
Program Code:	3D60
Name of Grantee:	University of Nevada - Reno
Grant Expiration Date	30 September 1984
Amount of Grant:	$203,692
Grant Number:	49620-83-C-0012
Principal Investigators:	Keith F. Priestley Alan S. Ryall
Program Manager:	Keith F. Priestley
Short Title of Work:	ATTENUATION IN THE WESTERN GREAT BASIN

Sponsored by
Advanced Research Projects Agency (DOD)
ARPA Order No. 4397
Monitored by AFOSR Under Grant 49620-83-C-0012

1. Research Program and Plan

(a) Operate three wideband, digital seismic stations in the western Great Basin as a dispersed network.

(b) Use data from these stations to examine variations in m_b and t^* from area to area in the western Great Basin.

(c) Investigate ways in which high-quality digital stations may be used to improve seismic verification at regional distance ranges.

(d) Study variations in the attenuation operator for multiple $S_c S$ recorded at western U.S. stations.

(e) Study m_b / M_s relationships for Mammoth earthquake sequence.

2. Status of Project

(a) Progress During the Reporting Period:

(1) Installed relay-link for Mina digital station on Mt. Ferguson.

(2) Prepared digital station for installation at Bodie.

(3) Designed fouth digital station for instalattion south of NTS for $S_c S$ study.

(b) Major Equipment Purchased During Reporting Period:

(a) replace 11/03 in digital recording system with 11/23 which allows more stations to be added to the digital network.

(b) Tectronics graphic terminals.

(c) Change in Key Personnel During the Reporting Period: None.

(d) Trips, Meetings, Papers Given During the Reporting Period:

(1) Priestley's travel:

(a) to LaJolla, Calif. 10/19-22 for Global Digital workshop.

(b) to Livermore, Calif., 11/1-3 to collect broad-band digital data for Mammoth Mb/Ms study.

(c) to Menlo Park, Calif., 11/15-16 for Canadian Network data for Mammoth Mb/Ms study.

(d) to Sacramento, Calif., 11/21 to for CDMG strong motion data for Mammoth Mb/Ms study.

(e) to San Francisco, Calif., 12/7-8 for AGU meeting.

(2) Ryall's travel:

(a) 11/3-4 DARPA panel meeting--TTBT--Washington, D.C.

(b) 12-6-8 AGU, San Francisco.

(e) Problems Encountered: None.

(f) Request made for a no-cost extension due to delay in installing final digital stations for S_eS study, and due to Ryall's anticipited leave to work for ARPA.

(g) Fiscal Status:

1. Amount currently provided in contract: $203,692

2. Expenditures and commitments to date: $72,236

3. Estimated funds required to complete this work: $203,692

4. Estimated date of completion of work: 30 June 1985